

WL139

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

KEMP QUARRIES / PRYOR STONE [67741]

Component Rear Left Final Drive

PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: Pm2 performed. All oil samples taken. Engine oil, and all filters changed.)

WEAR

All component wear rates are normal.

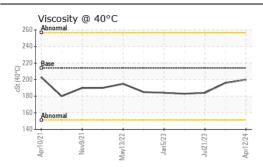
CONTAMINATION

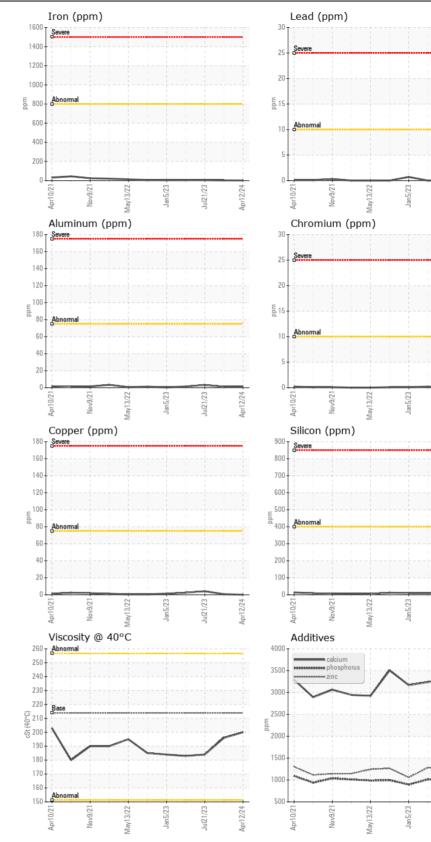
There is no indication of any contamination in the oil.

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0086654	PCA0084298	PCA0084203
Sample Date		Client Info		12 Apr 2024	07 Oct 2023	21 Jul 2023
Machine Age	hrs	Client Info		35426	34794	34308
Oil Age	hrs	Client Info		1118	486	2154
Filter Age	hrs	Client Info		1118	486	563
Oil Changed		Client Info		Oil Added	Oil Added	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron		ASTM D5185m	>800	<1	2	6
Chromium	ppm	ASTM D5185m	>800		0	0
	ppm			<1	-	
Nickel	ppm	ASTM D5185m	>5 >15	0	0	0
Titanium Silver	ppm	ASTM D5185m		-	-	0
	ppm	ASTM D5185m	>2	0	0	-
Aluminum	ppm	ASTM D5185m	>75	<1	1	3
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>75	0	<1	4
Tin	ppm	ASTM D5185m	>8	<1	<1	0
Vanadium	ppm	ASTM D5185m	NONE	0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>400	8	8	11
Silicon Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>400 >20	8	8 <1	11
				-		
Potassium		ASTM D5185m	>20	1	<1	1
Potassium Water	ppm	ASTM D5185m WC Method	>20 >0.2	1 NEG	<1 NEG	1 NEG
Potassium Water Silt	ppm scalar	ASTM D5185m WC Method *Visual	>20 >0.2 NONE	1 NEG NONE	<1 NEG NONE	1 NEG NONE
Potassium Water Silt Debris	ppm scalar scalar	ASTM D5185m WC Method *Visual *Visual	>20 >0.2 NONE NONE	1 NEG NONE NONE	<1 NEG NONE NONE	1 NEG NONE NONE
Potassium Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual	>20 >0.2 NONE NONE NONE	1 NEG NONE NONE NONE	<1 NEG NONE NONE	1 NEG NONE NONE NORE
Potassium Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NONE NORML	1 NEG NONE NONE NONE NORML	<1 NEG NONE NONE NONE NORML	1 NEG NONE NONE NORE
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NORML NORML	1 NEG NONE NONE NORML NORML NEG	<1 NEG NONE NONE NORML NORML NEG	1 NEG NONE NONE NORML NORML NEG
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.2 NONE NONE NORML NORML >0.2	1 NEG NONE NONE NORML NORML NEG	<1 NEG NONE NONE NORML NORML NEG 0	1 NEG NONE NONE NORML NORML NEG
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.2 NONE NONE NORML NORML	1 NEG NONE NONE NORML NORML NEG <1 <1	<1 NEG NONE NONE NORML NORML NEG	1 NEG NONE NONE NORML NORML NEG
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	 >20 >0.2 NONE NONE NORML NORML >0.2 2 0 	1 NEG NONE NONE NORML NORML NEG <1 <1 <1 0	<1 NEG NONE NONE NORML NORML NEG 0 0 0	1 NEG NONE NONE NORML NORML NEG <1 0 0
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML >0.2	1 NEG NONE NONE NORML NORML NEG <1 <1 <1 0 0	<1 NEG NONE NONE NORML NORML NEG 0 0 0 0 2	1 NEG NONE NONE NORML NORML NEG <1 0 0 0
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >20 >0.2 NONE NORME NORML >0.2 2 0 0 0 	1 NEG NONE NONE NORML NORML NEG <1 <1 <1 0 0 2 1	<1 NEG NONE NONE NORML NORML NEG 0 0 0	1 NEG NONE NONE NORML NORML NEG <1 0 0 0 0 <1
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >20 >0.2 NONE NONE NORML >0.2 2 0 0 9 	1 NEG NONE NONE NORML NORML NEG <1 <1 <1 0 0 <1 13	<1 NEG NONE NONE NORML NORML NEG 0 0 0 0 (0 0 (1	1 NEG NONE NONE NORML NORML NEG <1 0 0 0 0 <1 13
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >20 >0.2 NONE NONE NORML NORML >0.2 2 0 0 9 3114 	1 NEG NONE NONE NORML NORML NEG <1 <1 0 0 <1 13 3476	<1 NEG NONE NONE NORML NORML NEG 0 0 0 0 (1 0 1 3765	1 NEG NONE NONE NORML NORML NEG <1 0 0 0 <1 13 3270
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >20 >0.2 NONE NORME NORML >0.2 2 0 0 0 9 3114 1099 	1 NEG NONE NONE NORML NORML NEG <1 <1 <1 0 <1 <1 0 <1 13 3476 912	<1 NONE NONE NONE NORML NORML NORML NORML 0 0 0 0 0 1 3765 1067	1 NEG NONE NONE NORML NORML NEG <1 0 0 0 <1 13 3270 1007
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >20 >0.2 NONE NORML NORML >0.2 2 0 0 9 3114 1099 1245 	1 NEG NONE NONE NORML NORML NEG <1 <1 <1 0 0 <1 13 3476 912 1091	<1 NEG NONE NONE NORML NORML NORML NORML NORML 0 0 0 0 0 1 3765 1067 1399	1 NEG NONE NONE NORML NORML NEG <1 0 0 0 (1 0 0 (1 13 3270 1007 1259
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Malybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >20 >0.2 NONE NORME NORML >0.2 2 0 0 0 9 3114 1099 	1 NEG NONE NONE NORML NORML NEG <1 <1 <1 0 <1 <1 0 <1 13 3476 912	<1 NONE NONE NONE NORML NORML NORML NORML 0 0 0 0 0 1 3765 1067	1 NEG NONE NONE NORML NORML NEG <1 0 0 0 <1 13 3270 1007





Kemp Quarries - Pryor Stone - Pryor Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 1050 E 520 Rd : PCA0086654 : 22 Apr 2024 Lab Number : 06156354 Pryor, OK Tested : 23 Apr 2024 Unique Number : 10991777 : 24 Apr 2024 - Sean Felton US 74361 Diagnosed Test Package : MOB 1 Contact: Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. pryor@pryorstone.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Т: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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